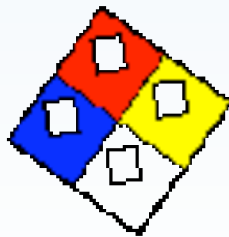


Safety is #1

PLEASE do not touch anything without permission

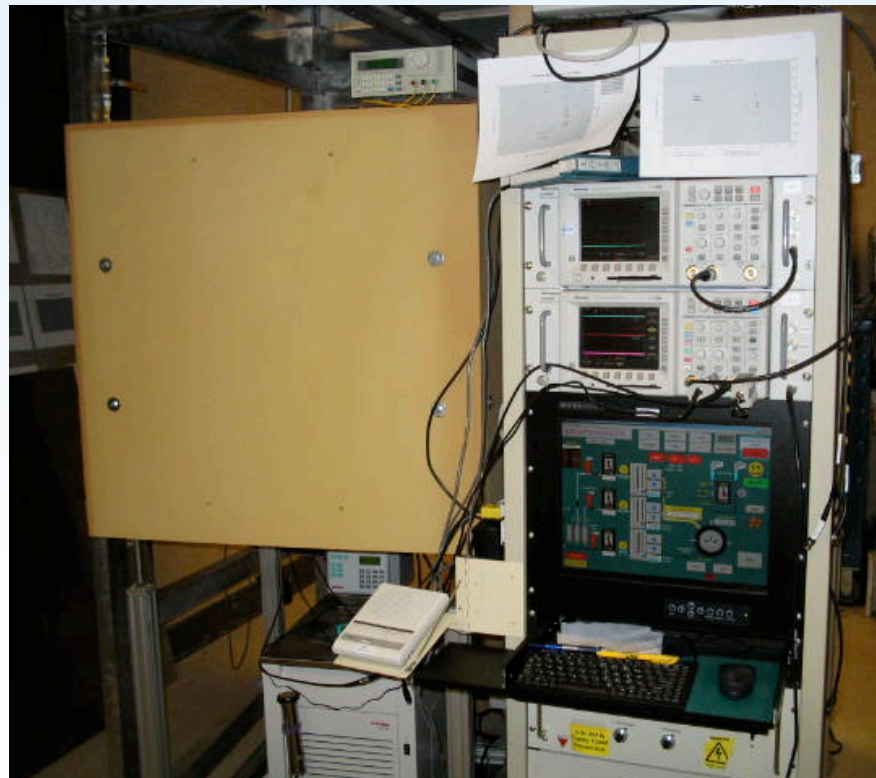
There are things in the laboratory areas that can harm you if everyone is not *VERY* careful...

- High Voltage & Current
- Chemicals
- Sharp Objects
- Rotating Parts



WELCOME to my lab

Building 5, Test Cell CE-13A and Control Room CE-15



turbomachinery and propulsion systems division

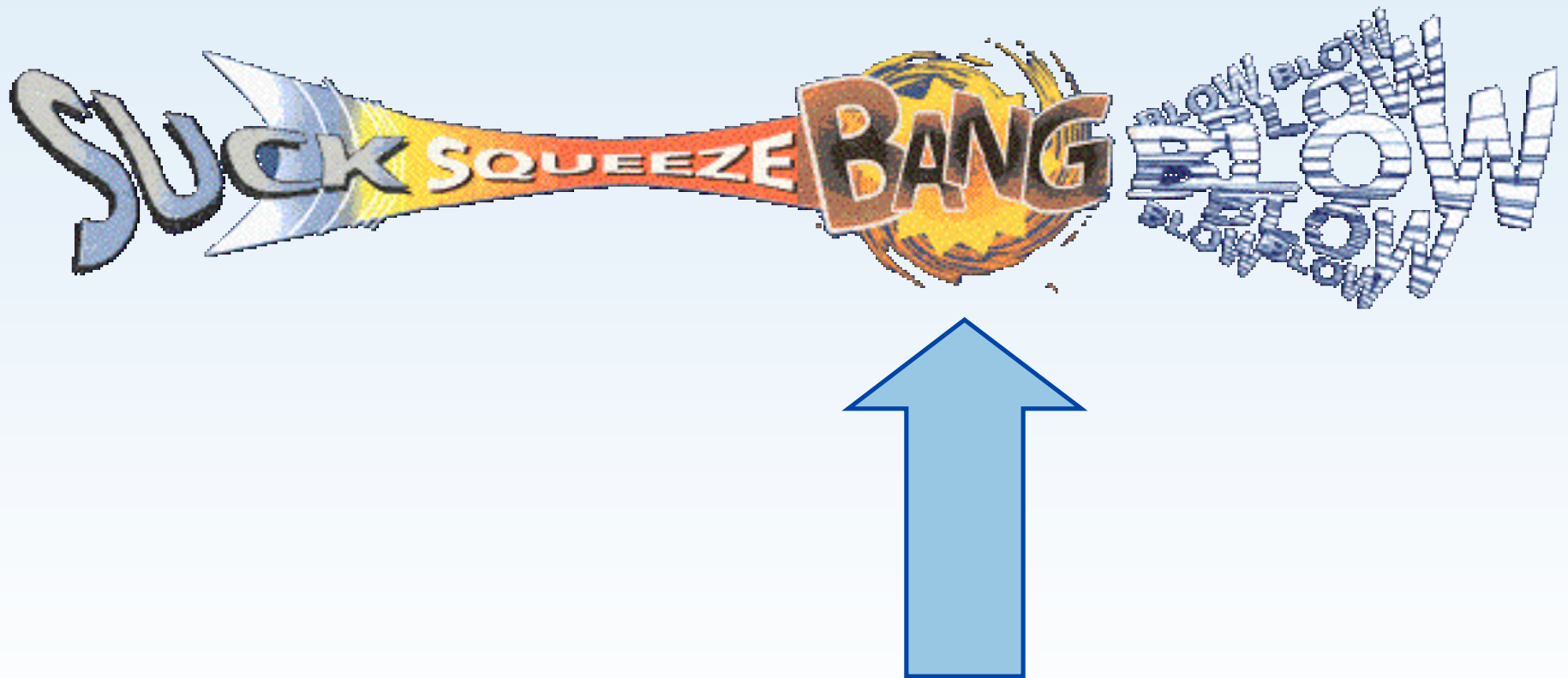
Combustion Branch



But what does this mean I do...

~ ~ I get to BLOW FUEL UP!

Remember this picture from Dale's introduction to engines...



This research experiment deals with how fuels ignite

Key Words

■ Combustion

- An act or instance of burning
- A rapid chemical process that produces heat (*exothermic*) and usually light
- Always involves molecular oxygen (O_2) in the reaction

■ Fuel

- A substance that can be consumed to produce energy

■ Hydrocarbon

- Organic material composed of carbon & hydrogen
(*can also include things like oxygen & nitrogen*)

